

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 87-059  
NPDES NO. CA0029238

WASTE DISCHARGE REQUIREMENTS FOR:

SANTA CLARA COUNTY TRANSPORTATION AGENCY  
DON PEDRO CHABOYA STATION FACILITY  
SAN JOSE, SANTA CLARA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board) finds that:

1. Santa Clara County Transportation Agency (hereinafter called the discharger) operates a bus washing, maintenance, and fueling facility at the Don Pedro Chaboya Station, located at 2240 South Seventh Street, San Jose, Santa Clara County. By application dated March 5, 1987, the discharger has applied for issuance of waste discharge requirements and a permit to discharge waste under the National Pollutant Discharge Elimination System (NPDES).
2. Site investigations show that the groundwater beneath the site has been polluted by floating diesel product, benzene, toluene, xylene and petroleum hydrocarbons. The pollution is the result of a leak from a perforation in a product delivery line.
3. Groundwater monitoring data indicates that the plume extends to a depth of approximately 35 feet and to a lateral distance of approximately 800 feet from the suspected source. Further studies are required to define the lateral and vertical extent of pollution.
4. The discharger seeks to cleanup and prevent the further migration of pollutants by groundwater extraction and treatment.
5. Waste 001 will consist of a maximum flow of 15,000 gallons per day (gpd) under initial operating conditions and following any start-up of the treatment system. Under average operating conditions, the flow will be approximately 600 gpd. The polluted groundwater will be pumped from two extraction trenches and treated by an oil-water separator, aeration-equalization tank, and two carbon adsorbers and

discharged to the storm sewer tributary to Coyote Creek and South San Francisco Bay.

6. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on July 21, 1982. The Basin Plan contains water quality objectives for Coyote Creek, South San Francisco Bay and contiguous surface and groundwater.
7. The beneficial uses of Coyote Creek include:
  - . Contact and non-contact water recreation
  - . Warm fresh water habitat
  - . Cold fresh water habitat
  - . Wildlife habitat
  - . Preservation of rare and endangered species
  - . Fish spawning and migration
8. The beneficial uses of South San Francisco Bay include:
  - . Contact and non-contact water recreation
  - . Wildlife habitat
  - . Preservation of rare and endangered species
  - . Estuarine habitat
  - . Fish spawning and migration
  - . Industrial service supply
  - . Shellfishing
  - . Navigation
  - . Ocean, commercial and sport fishing
9. The discharger has not conducted studies to determine the groundwater recharge potential of Coyote Creek. Effluent limits of this Order are anticipated to preclude adverse impacts on groundwater beneath Coyote Creek in the event that recharge is occurring.
10. The Basin Plan prohibits discharge of wastewater which has "particular characteristics of concern to beneficial uses" (a) "at any point in San Francisco Bay south of the Dumbarton Bridge" and (b) "at any point where the wastewater does not receive a minimum initial dilution of at least 10:1 or into any nontidal water, dead-end slough, similar confined water, or any immediate tributary thereof."
11. The Basin Plan allows for exceptions to the prohibitions referred to in Finding 10 above when it can be demonstrated that a net environmental benefit can be derived as a result of the discharge.
12. Exceptions to the prohibitions referred to in Finding 10 are warranted because the discharge is an integral

part of a program to cleanup contaminated groundwater and thereby produce an environmental benefit, and because receiving water concentrations are expected to be below levels that would effect beneficial uses. Should studies indicate chronic effects, not currently anticipated, the Board will review the requirements of this Order based upon section B.1.e.

13. The Basin Plan prohibits discharge of "all conservative toxic and deleterious substances, above those levels which can be achieved by a program acceptable to the Board, to waters of the Basin." The discharger's groundwater extraction and treatment system and associated operation, maintenance, and monitoring plan constitutes an acceptable control program for minimizing the discharge of toxicants to waters of the State.
14. Effluent limitations of this Order are based on the Basin Plan, State plans and policies, this Board's "Discharge of Polluted Groundwater to Surface Waters: Guidance Document, September 1985," and best engineering judgment.
15. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.
16. The Board has notified the discharger and interested agencies and persons of its intent to issue waste discharge requirements for the discharge and has provided them with the opportunity for a public hearing and an opportunity to submit their written views and recommendations.
17. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. EFFLUENT LIMITATIONS

1. Waste 001 shall not contain constituents in excess of the following limits:

<u>Constituent</u>	<u>Units</u>	<u>Instantaneous Maximum</u>
benzene	mg/L	0.0005
toluene	mg/L	0.005
xylene	mg/L	0.005
ethylbenzene	mg/L	0.005
total petroleum hydrocarbons identified as diesel	mg/L	0.050

2. The pH of the discharge shall not exceed 8.5 nor be less than 6.5.

3. In any representative set of samples, the discharge of waste shall meet the following limit of quality:

TOXICITY: The survival of rainbow trout fishes in 96 hour bioassays of the effluent as discharged shall be a median of 90% survival and a 90 percentile value of not less than 70% survival.

#### B. RECEIVING WATER LIMITATIONS

1. The discharge of wastes shall not cause the following conditions to exist in waters of the State at any place:

- a. Floating, suspended, or deposited macroscopic particulate matter or foam;
- b. Bottom deposits or aquatic growths;
- c. Alternation of temperature or apparent color beyond present natural background levels;
- d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
- e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.

2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State in any place within one foot of the water surface:

a. Dissolved oxygen: 5.0 mg/l minimum. The median dissolved oxygen concentration for any three consecutive months shall not be less than 80% of the dissolved oxygen content at saturation. When natural factors cause lesser concentrations(s) than specified above, the discharge shall not cause further reduction in the concentration of dissolved oxygen.

b. pH: The pH shall not be depressed below 6.5 nor raised above 8.5, nor caused to vary from normal ambient pH levels by more than 0.5 units.

3. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

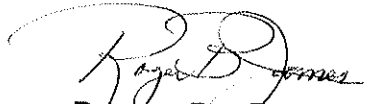
C. PROVISIONS

1. The discharger shall comply with all sections of this Order immediately upon discharge.
2. The discharger shall comply with the self-monitoring program as adopted by the Board and as may be amended by the Executive Officer.
3. The discharger shall also notify the Regional Board if any activity has occurred or will occur which would result in the discharge, on a frequent or routine basis, of any toxic pollutant which is not limited by this Order.
4. The discharger shall submit an operation and maintenance plan acceptable to the Executive Officer if chemical additions are made to the

waste stream for the control of scaling or biological growth.

5. The discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated December 1986, except items A.10, B.2, B.3, C.8, and C.11.
6. This Order expires June 17, 1992. The discharger must file a report of waste discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Administrative Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.
7. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Clean Water Act or amendments thereto, and shall become effective 10 days after date of its adoption provided the Regional Administrator, Environmental Protection Agency, has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

I, Roger B. James, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on June 17, 1987.

  
Roger B. James  
Executive Officer

Attachments:

Standard Provisions & Reporting Requirements,  
December 1986  
Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

SANTA CLARA COUNTY TRANSPORTATION AGENCY

DON PEDRO CHABOYA STATION FACILITY

SAN JOSE, SANTA CLARA COUNTY

NPDES NO. CA0029238

ORDER NO. 87-059

CONSISTS OF

PART A, Dec. 1986  
modified Jan. 1987

and

PART B, adopted June 17, 1987

PART B

SANTA CLARA COUNTY TRANSPORTATION AGENCY

DON PEDRO CHABOYA STATION FACILITY  
SAN JOSE, SANTA CLARA COUNTY

I. DESCRIPTION OF SAMPLING STATIONS

A. INFLUENT

<u>Station</u>	<u>Description</u>
I-1	At a point in the groundwater extraction/ treatment system immediately prior to any treatment.

B. EFFLUENT

<u>Station</u>	<u>Description</u>
E-001	At a point in the groundwater extraction/ treatment system immediately following treatment at a point before discharging into the storm drain.

C. RECEIVING WATERS

<u>Station</u>	<u>Description</u>
C-1	At a point in the Coyote Creek at least 100 feet but no more than 200 feet down stream from the storm drain point of discharge.

II. MISCELLANEOUS REPORTING

At least 30 days before any chemicals are utilized in or added to the treatment system, they shall be reported to the Executive Officer for review and approval.



### III. SCHEDULE OF SAMPLING AND ANALYSIS

The schedule of sampling and analysis shall be that given in Table I (attached).

### IV. MODIFICATIONS TO PART A

All items of Self Monitoring Program Part A, dated December 1986 and as modified January 1987 shall be complied with except for the following modifications:

A. Delete Sections D.2.e, D.2.g, E.3, and E.4.

B. Add the following as Section F.4:

"4. A tabulation shall be maintained showing the total quarterly volume of spent activated carbon (in cubic feet) from each treatment unit and the disposal site location."

C. Section G.4.b shall be changed to read as follows:

#### Compliance Evaluation Summary

"Each report shall be accompanied by a compliance evaluation summary sheet prepared by the discharger. The report format will be prepared similar to the example shown in APPENDIX A (attached). The discharger will prepare the format substituting for the example parameters those parameters and requirement limits for influent, effluent and receiving water constituents specified in the permit."

D. The first paragraph of Section G.4.d shall be changed to read as follows:

#### Results of Analyses and Observations

"Each report shall include tabulations of the results from each required analysis specified in Part B by date, time, type of sample, detection limit, station, and shall be signed by the laboratory director. The report format will be prepared similar to the examples shown in APPENDIX B, substituting those parameters specified in the permit for the parameters given in the example."

E. Information requested under Section G.4.e shall be prepared in a format similar to EPA Form 3320-1 and shall be submitted only to the Regional Board.


F. Section G.5 shall be modified to read as follows:

Annual Reporting

"By January 30 of each year, the discharger shall submit in place of the end of the year monthly report, an annual report to the Regional Board covering the previous calendar year. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the report shall contain a comprehensive discussion of the compliance record and the corrective actions taken or planned which may be needed to bring the discharger into full compliance with the waste discharge requirements. The report format will be prepared by the discharger using the examples shown in APPENDIX D (attached) substituting those parameters specified in the permit for the parameters given in the example and should be maintained and submitted with each regular self-monitoring report."

I, Roger B. James, Executive Officer, do hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 87-059.
2. Was adopted by the Board on June 17, 1987.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer or Regional Board.

  
ROGER B. JAMES  
EXECUTIVE OFFICER

Attachments: Table 1  
Appendices A-E

TABLE 1

## SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

SAMPLING STATION	I-1	E-001	C-1
TYPE OF SAMPLE	G	G	G
Flow Rate (gal/day)	D	D	
pH (units)		M	Q
Dissolved Oxygen (mg/l and % Saturation)		Q	Q
Temperature (°C)		Q	
Total Suspended Solids (mg/l)		Q	
Fish Toxicity 96-hr. TL % Survival in undiluted waste		Y	
Benzene	M/Q	W/M	Q
Toluene	M/Q	W/M	Q
Xylenes	M/Q	W/M	Q
Ethylbenzene	M/Q	W/M	Q
Total Petroleum Hydrocarbons Identified as Diesel	M/Q	W/M	Q

LEGEND FOR TABLE 1TYPES OF SAMPLES

G = grab

TYPES OF STATIONS

I = treatment facility influent station

E = waste effluent station

C = receiving water station

FREQUENCY OF SAMPLING

D = once each day

M = once each month

Q = quarterly; once in March, June, September and December

Y = once each year

W/M = weekly for 3 months, monthly thereafter

M/Q = monthly for 3 months, quarterly thereafter